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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 08/424,223 04/19/1995 JOSEPH HUMMEL 10-142C3 9189 7590 03/31/2004 EXAMINER WATTS HOFFMANN FISHER & HEINKE CO.L.P.A. WORRELL JR, LARRY D P.O.BOX 99839 ART UNIT CLEVELAND, OH 441990839 PAPER NUMBER 3765 79

DATE MAILED: 03/31/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be valiable under the proteitons of 37 CFR 1.138(a). In no event, however, may a reply be timely filled effer SIX (6) MONTHS from the mailing date of this communication. If the period for reply is specified above is the star thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If MO period for reply is specified above is the star thirty (30) days, a reply within the statutory period by the SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become 8ABODE (36 U.S. C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.36 is/are pending in the application. 4a) Of the above claim(s) 4.7-10.13.14, 19-24 and 27-34 is/are withdrawn from consideration. 5) Claim(s) 2.3.5.6.17.18.25 and 26 is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheel(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d			Application No.	Applicant(s)		
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U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Claims 1, 11/1, 12/11/1, 15/1, 16/11/1, 35/1 and 36/35/1 are rejected under 35 U.S.C. § 103 as being unpatentable over Bettcher in view of the admittedly known normal strength fiber or yarn VECTRAN M described in appellant's specification at pages 2-4. Bettcher discloses a cut-resistant yarn (Fig. 1) having the

construction broadly set forth in claim 1 on appeal, with the exception that this patent does not disclose or teach that "at least one of" the core, first wrapping and second wrapping of the composite yarn therein be comprised of a liquid crystal polymer fiber having a tenacity of no more than 10 grams per denier. However, Bettcher does teach that the yarn therein has a second wrapping or winding (14) which is preferably one having low friction, light weight, a silk-like hand, that is fast drying, resistant to light and low in cost, preferably, for example, nylon or a polyester (e.g., Dacron), both of which are recognized as normal strength fibers. Similarly, appellant's specification (pages 2-4) and brief (pages 13-14) indicate that VECTRAN M sold by Hoechst Celanese Corp. is a normal strength fiber having good abrasion resistance, high impermeability, excellent property retention over a broad temperature range, low moisture absorption, can be laundered at high temperatures conventionally used for industrial fabrics, etc.. Given the nature of the known VECTRAN M fiber vis-a-vis the other normal strength fibers (e.g., nylon and polyester) for use in the second wrapping (14) of

Bettcher, it is our opinion that it would have been obvious to one of ordinary skill in the art at the time of appellant's invention to use the normal strength synthetic fiber VECTRAN M as one of the fibers for the second wrapping (14) of Bettcher so as to gain the self-evident benefits thereof relative to the underlying high strength Kevlar fiber wrapping (12) over which it would be applied. As for the claims requiring a metal strand in the cut-resistant yarn, we note the disclosure of Bettcher at column 1, lines 46-58, and column 2, lines 51-55. Bettcher also discloses (e.g., Fig. 2 and col. 4, line 48+) that the composite yarn therein may be formed into protective apparel, such as a cut-resistant protective glove.

Response to Arguments

Applicant's arguments filed 6/22/01 have been fully considered but they are not persuasive. Applicant argues that the statement "there is nothing within the disclosure of Bettcher that would preclude the inclusion a slightly stiffer fiber such as Vectran M" is not a motivation for obviousness. It should be noted that the examiner has never set forth this as reason for combining the prior art. The Board decision of 10/27/00 originally set forth the reasons why the combination of prior art was obvious, namely good abrasion resistance, high impermeability, excellent property retention over a broad temperature range, low moisture absorption, etc.

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• Any inquiry concerning this communication or earlier communications from the examiner should be directed to Danny Worrell whose telephone number is 703/308-0889. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Calvert can be reached on 703/305-1025. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner
Art Unit 3765

LDW